	Application No.	Applicant(s)
Notice of Allowability	10/812,471	CHANG ET AL.
	Examiner	Art Unit
	Ernest Unelus	2181
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	plication. If not included not will be mailed in due course. THIS
1. This communication is responsive to <u>02/27/07</u> .		
2. The allowed claim(s) is/are 1 and 8-12.		
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 	been received. been received in Application No	•
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal P	Patent Application
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	• •
3. Information Disclosure Statements (PTO/SB/08), 3. The statement of th	Paper No./Mail Da 7. ⊠ Examiner's Amendr	te
Paper No./Mail Date	_	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ☑ Examiner's Stateme	ent of Reasons for Allowance
•	e. 🔲 Outet	

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DETAILED ACTION

I. EXAMINER'S AMENDMENT

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization for this examiner's amendment was given in a telephone interview with Mr. John Schaefer (Reg. No. 47,921) on March 27, 2007. The examiner proposed amendments to better place the application in condition for allowance, particularly adding the limitation that prior arts fail to teach. Mr. Schaefer agreed.
- 3. The application has been amended as follows:
- 4. Claim 1 has been amended to include the limitation as discloses below;
- 5. <u>Claim 1</u> (currently amended) A memory card having a <u>SECURE DIGITAL</u> (SD) interface at one end and a <u>MEMORY STICK</u> (MS) interface at the opposite end for communicating with an SD card reader and an MS card reader respectively, comprising; a function module;
- a controller coupled to the function module for accessing;
- an SD I/O buffer coupled to the controller for sending a <u>command (CMD)</u> control signal, the SD I/O buffer including a first pull-down resistor for providing a first voltage level to the CMD control signal; and

an MS I/O buffer coupled to the controller for sending a bus status (BS) control signal, the MS

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I/O buffer including a first pull-up resistor for providing a second voltage level to the BS control

signal,

wherein, when the memory card is inserted into an SD card reader having a second pull-up

resistor, the first pull-down resistor and the second pull-up resistor are coupled to provide the

CMD control signal with a high voltage level, wherein the controller determines that the memory

card is inserted into an SD card reader and thus enables the SD interface for communicating with

the SD card reader, and

wherein, when the memory card is inserted into an MS card reader having a second pull-down

resistor, the first pull-up resistor and the second pull-down resistor are coupled to provide the BS

control signal with a low voltage level, wherein the controller determines that the memory card is

inserted into an MS card reader and thus enables the MS interface for communicating with the

MS card reader.

II. RELEVANT ART CITED BY THE EXAMINER

6. The following prior art made of record and not relied upon is cited to establish the level

of skill in the applicant's art and those arts considered reasonably pertinent to applicant's

disclosure. See MPEP 707.05(c).

7. The following reference teaches of a memory card having multiple interfaces.

U.S. PATENT NUMBER

US 6,097,883

US 6,857,038

US 7,149,836

III. REASONS FOR ALLOWANCE

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- 8. Claims 1 and 8-12 are allowed.
- 9. The following is an examiner's statement of reasons for allowance:

The primary reasons for allowance of claim 1 in the instant application is the combination with the inclusion in the claim that "wherein, when the memory card is inserted into an SD card reader having a second pull-up resistor, the first pull-down resistor and the second pull-up resistor are coupled to provide the CMD control signal with a high voltage level, wherein the controller determines that the memory card is inserted into an SD card reader and thus enables the SD interface for communicating with the SD card reader, and wherein, when the memory card is inserted into an MS card reader having a second pull-down resistor, the first pull-up resistor and the second pull-down resistor are coupled to provide the BS control signal with a low voltage level, wherein the controller determines that the memory card is inserted into an MS card reader and thus enables the MS interface for communicating with the MS card reader." The prior art of record neither anticipates nor renders obvious the above-recited combination.

- 10. Per the instant office action, <u>claims 1 and 8-12 (Now renumbered to claims 1-6)</u> are considered as allowable subject matter.
- 11. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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DIRECTION OF FUTURE CORRESPONDENCES

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ernest Unelus whose telephone number is (571) 272-8596. The examiner can normally be reached on Monday to Friday 9:00 AM to 5:00 PM.

IMPORTANT NOTE

13. If attempts to reach the above noted Examiner by telephone are unsuccessful, the Examiner's supervisor, Mr. Donald Sparks, can be reached at the following telephone number: Area Code (571) 272-4201.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PMR system, see her//pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-91 97 (toll-free).

March 28, 2007

Ernest Unelus
Patent Examiner
Art Unit 2181

IPERVISORY PATENT EXAMINE